

**RULE 63 (37 C.F.R. 1.63)**  
**DECLARATION AND POWER OF ATTORNEY**  
**FOR PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

New methods of fabrication devices and semiconductor layers comprising cadmium mercury telluride, mercury telluride and cadmium telluride

the specification of which (check applicable box(es)):

☐ is attached hereto  
☐ was filed on \_\_\_\_\_ as U.S. Application Serial No. \_\_\_\_\_ Atty Dkt. No. P\*\*  
☒ was filed as PCT International application No. PCT/GB00/03249 on 22/08/00  
and (if applicable to U.S. or PCT application) was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application:

Priority Foreign Application(s):

Application Number	Country	Day/Month/Year Filed
9921639.2	GB	15/09/99

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

Application Number	Date/Month/Year Filed
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PCT/GB00/03249	22/08/00	PENDIN

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1.	Inventor's Signature: <u>[Signature]</u>	Date: <u>8<sup>th</sup> May 2002</u>
	Inventor: Janet (first) E MI HAILS (last) GB (citizenship)	
	Residence: (city) <u>Malvern</u> (state/country) <u>GB</u>	
	Post Office Address: <u>Defence Evaluation &amp; Research Agency - St Andrews Road, Malvern Worcs</u>	
	(Zip Code) <u>WR14 3PS</u>	
2.	Inventor's Signature: _____	Date: _____
	Inventor: Saamara (first) N MI TURNEY (legal representative) (last) GB (citizenship)	
	Residence: (city) <u>Yelvertoft</u> (state/country) <u>GB</u>	
	Post Office Address: <u>The Hollies, 1 Kings Lane Yelvertoft Northants</u>	
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FOR ADDITIONAL INVENTORS, check box ☒ and attach sheet with same information and signature and date for each.

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Inventor: David J COLE-HAMILTON GB  
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Residence: (city) Fife \_\_\_\_\_ (state/country) GB  
Post Office Address: Chemistry Dept, University of St Andrews, Purdie Building, North Haugh St Andrews  
(Zip Code) KY16 9ST
5. Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Inventor: William BELL GB  
(first) MI (last) (citizenship)  
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1. Inventor's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor:

Janet  
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(citizenship)

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(Zip Code)

WR14 3PS

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Saamara  
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1.	Inventor's Signature: Inventor:	Janet (first)	E MI	HAILS (last)	Date: _____	GB (citizenship)
	Residence: (city)	Malvern	(state/country)		GB	
	Post Office Address: (Zip Code)	Defence Evaluaton & Research Agency St Andrews Road, Malvern Worcs WR14 3PS				
2.	Inventor's Signature: Inventor:	Saamara (first)	N MI	TURNEY (legal representative) (last)	Date: _____	GB (citizenship)
	Residence: (city)	Yelvertoft	(state/country)		GB	
	Post Office Address: (Zip Code)	The Hollies, 1 Kings Lane Yelvertoft Northants NN6 6LX				

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	Residence: (city)	(state/country) GB		
	Post Office Address: (Zip Code)			
4.	Inventor's Signature: Inventor:	David J COLE-HAMILTON (first) MI (last)	Date:	12 <sup>th</sup> April, 2012 GB (citizenship)
	Residence: (city)	Fife (state/country) GB		
	Post Office Address: (Zip Code)	Chemistry Dept, University of St Andrews, Purdie Building, North Haugh St Andrews KY16 9ST		
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Nixon & Vanderhye P.C. (12/95)

Page 2

3.	Inventor's Signature: Inventor:	John STEVENSON(deceased) (first) MI (last)	Date:	GB (citizenship)
	Residence: (city)	(state/country) GB		
	Post Office Address: (Zip Code)			
4.	Inventor's Signature: Inventor:	David J COLE-HAMILTON (first) MI (last)	Date:	GB (citizenship)
	Residence: (city)	Fife (state/country) GB		
	Post Office Address: (Zip Code)	Chemistry Dept, University of St Andrews, Purdie Building, North Haugh St Andrews KY16 9ST		
5.	Inventor's Signature: Inventor:	 William BELL (first) MI (last)	Date:	13 APR 92 GB (citizenship)
	Residence: (city)	Fife (state/country) GB		
	Post Office Address: (Zip Code)	Chemistry Dept, University of St Andrews, Purdie Building, North Haugh St Andrews KY16 9ST		
6.	Inventor's Signature: Inventor:	Douglas F FOSTER (first) MI (last)	Date:	GB (citizenship)
	Residence: (city)	Fife (state/country)		
	Post Office Address: (Zip Code)	Chemistry Dept, University of St Andrews, Purdie Building, North Haugh St Andrews KY16 9ST		
7.	Inventor's Signature: Inventor:	(first) MI (last)	Date:	(citizenship)
	Residence: (city)	(state/country)		
	Post Office Address: (Zip Code)			
8.	Inventor's Signature: Inventor:	(first) MI (last)	Date:	(citizenship)
	Residence: (city)	(state/country)		
	Post Office Address: (Zip Code)			
9.	Inventor's Signature: Inventor:	(first) MI (last)	Date:	(citizenship)
	Residence: (city)	(state/country)		
	Post Office Address: (Zip Code)			
10.	Inventor's Signature: Inventor:	(first) MI (last)	Date:	(citizenship)
	Residence: (city)	(state/country)		
	Post Office Address: (Zip Code)			



**RULE 63 (37 C.F.R. 1.63)**  
**DECLARATION AND POWER OF ATTORNEY**  
**FOR PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

New methods of fabrication devices and semiconductor layers comprising cadmium mercury telluride, mercury telluride and cadmium telluride

the specification of which (check applicable box(es)):

☐ is attached hereto  
☐ was filed on \_\_\_\_\_ as U.S. Application Serial No. \_\_\_\_\_ Atty Dkt. No. P\*\*\*\*  
☒ was filed as PCT international application No. PCT/GB00/03249 on 22/08/00  
and (if applicable to U.S. or PCT application) was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application:

Priority Foreign Application(s):

Application Number	Country	Day/Month/Year Filed
9921639.2	GB	15/09/99

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

Application Number	Date/Month/Year Filed
--------------------	-----------------------

I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

Prior U.S./PCT Application(s):

Application Serial No.	Day/Month/Year Filed	Status: patented pending, abandoned
PCT/GB00/03249	22/08/00	PENDING

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And I hereby appoint **NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8<sup>th</sup> Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed)**, and the following attorneys thereof (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Beshia, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffry H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29366; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; William J. Griffin, 31260; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331.\*

1.	Inventor's Signature:	Date:		
	Inventor:	Janet (first)	E MI	HAILS (last) GB (citizenship)
	Residence: (city)	Malvern	(state/country)	GB
	Post Office Address:	Defence Evaluation & Research Agency St Andrews Road, Malvern Worcs		
	(Zip Code)	WR14 3PS		
2.	Inventor's Signature:	Date:		
	Inventor:	Saamara (first)	N MI	TURNEY (legal representative) (last) GB (citizenship)
	Residence: (city)	Yelvertoft	(state/country)	GB
	Post Office Address:	The Hollies, 1 Kings Lane Yelvertoft Northants		
	(Zip Code)	NN6 6LX		

FOR ADDITIONAL INVENTORS, check box ☒ and attach sheet with same information and signature and date for each.

**RULE 63 (37 C.F.R. 1.63)**  
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**FOR PATENT APPLICATION**

Nixon & Vanderhye P.C. (12/95)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Page 2

3. Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Inventor: John STEVENSON(deceased) GB  
(first) MI (last) (citizenship)  
Residence: (city) \_\_\_\_\_ (state/country) GB  
Post Office Address: \_\_\_\_\_  
(Zip Code) \_\_\_\_\_
4. Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Inventor: David COLE-HAMILTON GB  
(first) MI (last) (citizenship)  
Residence: (city) Fife (state/country) GB  
Post Office Address: Chemistry Dept, University of St Andrews, Purdie Building, North Haugh St Andrews  
(Zip Code) KY16 9ST
5. Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Inventor: William BELL GB  
(first) MI (last) (citizenship)  
Residence: (city) Fife (state/country) GB  
Post Office Address: Chemistry Dept, University of St Andrews, Purdie Building, North Haugh St Andrews  
(Zip Code) KY16 9ST
6. Inventor's Signature: Douglas F. Foster Date: April 15, 2002  
Inventor: Douglas F. FOSTER GB  
(first) MI (last) (citizenship)  
Residence: (city) Fife (state/country) GB  
Post Office Address: Chemistry Dept, University of St Andrews, Purdie Building, North Haugh St Andrews  
(Zip Code) KY16 9ST
7. Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Inventor: \_\_\_\_\_  
(first) MI (last) (citizenship)  
Residence: (city) \_\_\_\_\_ (state/country) \_\_\_\_\_  
Post Office Address: \_\_\_\_\_  
(Zip Code) \_\_\_\_\_
8. Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Inventor: \_\_\_\_\_  
(first) MI (last) (citizenship)  
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(Zip Code) \_\_\_\_\_
9. Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Inventor: \_\_\_\_\_  
(first) MI (last) (citizenship)  
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Post Office Address: \_\_\_\_\_  
(Zip Code) \_\_\_\_\_
10. Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Inventor: \_\_\_\_\_  
(first) MI (last) (citizenship)  
Residence: (city) \_\_\_\_\_ (state/country) \_\_\_\_\_  
Post Office Address: \_\_\_\_\_  
(Zip Code) \_\_\_\_\_



# SHERIFF CLERK'S OFFICE

HM Commissary Office  
27, Chambers Street  
Edinburgh EH1 1LB  
Rutland Exchange DX ~~811~~ 550313, Edinburgh 37

Telephone 0131 225 2525  
Direct Line 0131 247 2850  
Fax 0131 225 4605

DERA Farnborough  
Intellectual Property Dept  
A4 Bldg Rm G016  
Ively Road  
Farnborough  
HANTS. GU14 0LX

Please reply to The Sheriff Clerk Edinburgh

Your reference OIP 2857

Our reference SB184133

Date 24 November, 2000

FOR THE ATTENTION OF: MRS S.A. CHARLES

Dear Sir/Madam

*John Stevenson*

I enclose herewith plain copy confirmation and plain copy will relating to the above named deceased.

The copies issued are for information only and have no legal status.

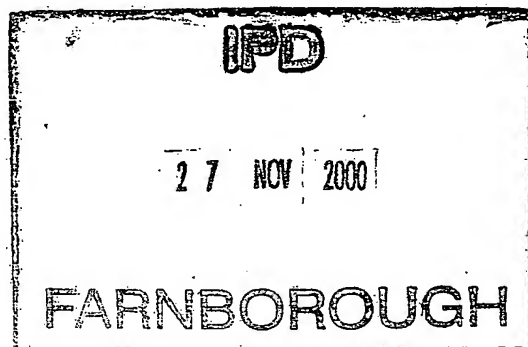
No responsibility can be accepted for the completeness of the search or the accuracy of the information, if any, given.

I also enclose herewith receipt for the fee/balance paid.

Yours faithfully

*Deputy*  
Depute Commissary Clerk

Enc



# CONFIRMATION



in favour of the Executor(s) of the deceased hereinafter named and designed.

## Your name and address

Carltons,  
Solicitors,  
DX DD5,  
Dundee.

RCS.CFSW.AMW

## Deceased

Surname STEVENSON

Title and forenames JOHN

Date of birth 1 4 0 6 3 2

Date of death 2 6 0 2 9 8

Address Late of 7 Balgove Avenue,  
Gauldry, Fife.

Place of death  
Gauldry

Occupation  
Industrial Chemist

## Executors (Nominate/~~Public~~)

Full name(s) and address(es). If nominate, list in the order shown in the will, etc.

MRS. SAAMARA NAOMI STEVENSON or TURNEY, The Hollies, 1 Kings Lane,  
Yelvertoft, Northants, NN6 6LX.

Total Estate for confirmation £

92,664.79

Cupar, 3 June

1998

Recorded in the Court Books of the

Commissariat of Tayside,  
Central and Fife at Cupar

along with relative deeds.

Declaration by. MRS. SAMARA NAOMI STEVENSON or TURNEY, The Hollies,  
1 Kings Lane, Yelvertoft, Northants, NN6 6LX,

who declares

1. That the said John Stevenson  
(hereafter referred to as "the said deceased") died on the date and place aforementioned

Domiciled in the Sheriffdom of Tayside Central and Fife in Scotland

2. That I am the Executor-nominate of the said deceased conform to Trust  
Disposition and Settlement by him dated 18 June 1986 which is produced  
herewith docketted and signed as relative hereto and wherein the said  
deceased appointed to be his Executor primo loco, his wife, MRS. CORA  
MARGARET STEVENSON who is designed in said Trust Disposition and Settlement  
as, "residing with me", who predeceased the said deceased; and secundo  
loco, DAVID EDWARD STEVENSON, 7 Balgove Avenue, Gauldry, Fife, who also  
predeceased the said deceased, and me the said Mrs. Samara Naomi Stevenson  
or Turney, declaring that in said Trust Disposition and Settlement I am  
designed as, "Samara Naomi Stevenson, 7 Balgove Avenue, Gauldry, Fife".

3. That I have entered, or am about to enter, upon possession and management of the said  
deceased's estate as Executor or ~~foresaid along with said~~
4. That I do not know of any testamentary settlement or writing relative to the disposal of the said  
deceased's estate or any part thereof other than that before mentioned.
5. That the Inventory (on Pages 4- ) annexed hereto is a full and complete Inventory of the  
heritable estate in Scotland belonging to the said deceased or the destination of which he had  
power to and did evacuate, of the moveable estate of the said deceased in Scotland, of the real  
and personal estate of the said deceased situated in England and Wales and in Northern Ireland  
and of the estate of the said deceased situated elsewhere, including property, other than settled  
property, over which he had and exercised, an absolute power of disposal.
6. That confirmation of the said estate in Scotland, England and Wales and Northern Ireland  
amounting in value to £ 92,664.79 is required.

All of which is true to the best of my knowledge and belief.

Signature STurney Date 31/5/98

**Warning to Executors**

You may be liable to penalties or prosecution if you fail to make full enquiries and to include all  
property on which Inheritance Tax is payable.

0 1 0 9 6 0 0 1 6 0 4

Form CN

**THE SHERIFF OF TAYSIDE, CENTRAL AND FIFE**

considering that there has been given up an inventory of the estate and effects of the said deceased, and a Declaration having been made, which Declaration and Inventory (all as hereinbefore copied) and the Deed(s) referred to in the Declaration, have been recorded in the Court Books of this Commissariat on Third June 1998, in **HER MAJESTY'S NAME AND AUTHORITY, APPROVES OF AND CONFIRMS** as Executor nominate of the said deceased, who died **DOMICILED IN SCOTLAND**, the said

**MRS SAAMARA NAOMI STEVENSON or TURNEY**

and **GIVES AND COMMITS** to the said Executor full power as appropriate to take possession of, make up title to, uplift or receive the estate and effects, situated in Scotland, England and Wales, administer and dispose of the same, grant discharges thereof, if needful to pursue therefor, and generally every other thing concerning the same to do that to the office of a(n) Executor-nominate is known to belong: Providing always that the said Executor shall render just account and reckoning for Intromissions therewith when and where the same shall be legally required.

*f.* GIVEN under the **SEAL OF OFFICE OF THE COMMISSARIOT OF TAYSIDE, CENTRAL AND FIFE** and signed by the **CLERK OF COURT AT CUPAR** the Third day of June, **NINETEEN HUNDRED AND NINETY EIGHT**

**SHERIFF CLERK AT CUPAR**

I, JOHN STEVENSON, residing at Seven Balgove Avenue, Gauldry, Fife, in order to settle the succession to my means and estate after my death Provide as follows:-

IN THE FIRST PLACE in the event of my wife, MRS. CORA MARGARET STEVENSON, residing with me, surviving me for thirty days, I BEQUEATH and DISPONE to her ALL and SUNDRY the whole means and estate, heritable and moveable, real and personal of whatever description and wheresoever situate which shall belong to me or over which I may have power of disposal at my death; And I appoint my wife to be my sole Executor; Provided that if she renounces the foregoing bequest, then without prejudice to the appointment of an executor and the revocation of testamentary writings herein contained, I declare my estate to be undisposed of by these presents;

IN THE SECOND PLACE in the event of my wife not surviving me for thirty days and in that event only I ASSIGN, DISPONE and CONVEY to my son, DAVID EDWARD STEVENSON, and my daughter, SAMARA NAOMI STEVENSON, both residing at Seven Balgove Avenue, Gauldry, Fife, and to the acceptors or acceptor and the survivor of them as Trustees or Trustee for the purposes aftermentioned ALL and SUNDRY the whole means and estate, heritable and moveable, real and personal of whatever description and wheresoever situate which shall belong to me or over which I may have power of disposal at my death BUT THAT IN TRUST ALWAYS for the following purposes namely:-

(FIRST) for payment of all my lawful debts, funeral expenses and the expenses of the Trust hereby created; and

(SECOND) I direct my Trustees to CONVEY and MAKE OVER the residue of my said means and estate to my children who are in life at the expiry of thirty days from the date of my death in equal shares if more than one jointly with the issue who may then survive of such of my children as may have predeceased, the issue of such children taking equally between and amongst them per stirpes if more than one the share, original and accresced, which his, her or their parent would have taken if such parent had survived; Declaring, however, that in the event of any beneficiary hereunder being under eighteen years of age my Trustees shall retain the share of said residue falling to such beneficiary until he or she shall have attained the age of eighteen years with power to my Trustees to apply the whole or part not only of the income but also of the capital of such beneficiary's share or shares for the maintenance, education and general advancement in life or otherwise for the benefit of such beneficiary (including marriage) and that in such way and manner all as my Trustees in their uncontrolled discretion shall think proper;

AND in addition to the powers competent to gratuitous Trustees by law my Trustees (whether or not they take benefit under these presents) shall have the fullest powers in regard to investment, realisation, administration, management and division of the Trust Estate as if they were the beneficial owners thereof;

AND in particular but without prejudice to the foregoing generality my Trustees shall have the following powers namely:-

(One) Power to sell the Trust Estate by public roup or by private bargain or by valuation of arbiters as they in their sole discretion may think best;

(Two) /

*John Stevenson*

(Two) Power to delay realisation of and to retain all or any of the assets of the Trust Estate although of a speculative trading or wasting character and although carrying liability and that for such length of time or from time to time or indefinitely as my Trustees may consider proper;

(Three) Power to invest the Trust Estate in loans over heritable or other security or in the purchase of heritable, real or leasehold property or of any class of stocks, shares or other securities at home or abroad as my Trustees in their sole discretion may consider proper;

(Four) Power to appoint any one of their own number or otherwise to act as Solicitor, Factor, Stockbroker, Accountant or Auditor to the Trust and to pay to any one so appointed although a Trustee the same professional remuneration to which he would have been entitled had he not been a Trustee; and

(Five) Power to resign office as Trustee;

AND I provide and declare that my Trustees shall only be bound to act honourably and shall not be liable or responsible in any manner of way or to any extent for any loss or damage which may arise or be occasioned by the failure or depreciation in value of any of the assets in which any part of the Trust Estate may be invested when my Trustees enter upon the management thereof or in which they may invest the same;

AND I appoint my Trustees and the acceptors or acceptor and the survivor of them to be my Executors or Executor and also to be Tutors or Tutor and Curators or Curator to any beneficiary hereunder who may be under eighteen years of age;

AND IN THE THIRD PLACE I revoke all prior testamentary writings and I declare that these presents shall not be revoked or affected by the birth of any child or children of mine after the date hereof: IN WITNESS WHEREOF these presents consisting of this and the preceding page are subscribed by me at DUNDEE on the EIGHTEENTH day of JUNE NINETEEN HUNDRED AND EIGHTY SIX before the witnesses hereto with me subscribing.

Witness *Charles Fraser Scott Williamson*  
Full Name Charles Fraser Scott Williamson  
Occupation Solicitor  
Address 30 Whitehall Street, Dundee

Witness *Linda Cadman*  
Full Name Linda Cadman  
Occupation Secretary  
Address 30 Whitehall Street, Dundee

*Witnessed: 31 May 1986*  
This is the Trust Disposition and Settlement referred to in my Declaration of this date to the Inventory of Estate of the late John Stevenson.

*STurney*

CUPAR 3 JUNE 1978. Recorded in  
the Court Books of the Commissariat  
of Tayside, Central and Fife at Cupar.

*[Signature]*  
Sheriff Clerk at Cupar